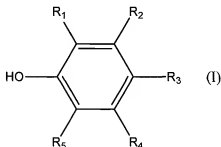


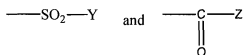
AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in this application.

Claim 1 (**Currently Amended**). A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (I)



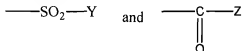
wherein R₁ and R₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 ~~carbons or carbons~~,



wherein Y is selected from the group consisting of alkyl having 1 to 8 carbons, alkenyl having 2 to 8 carbons, alkoxy having 1 to 6 carbons, substituted amino, substituted cycloalkyl, substituted phenyl ~~[[or]]~~ and substituted aralkyl

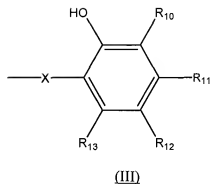
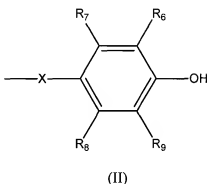
Z is selected from the group consisting of alkyl having 1 to 8 carbons, alkenyl having 2 to 8 carbons, alkoxy having 1 to 6 carbons, hydroxyl, substituted amino, substituted cycloalkyl, substituted phenyl [[or]] and substituted aralkyl;

R₂ and R₄ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, [[or]] and hydroxyl, [[or]] or, when R₁, R₃ or R₅ is alkoxy having 1 to 4 carbons or hydroxyl, R₂ and R₄ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl,

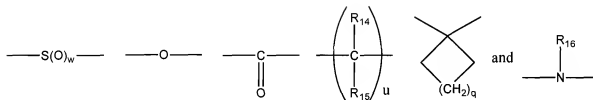


wherein Y and Z are as defined above, ~~when R₁, R₃ or R₅ is alkoxy having 1 to 4 carbons or hydroxyl;~~ above;

R₃ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, Formula (H) ~~or~~ (II), Formula [[(III)]] (III), ---SO₂---Y, and ---C(=O)---Z, wherein Y and Z are as defined above,

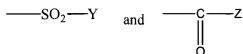


wherein X is selected from the group consisting of



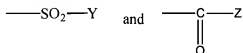
wherein w is 0, 1 or 2; u is 0 or 1; q is 0 to 4; R₁₄ and R₁₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, optionally substituted phenyl [[or]] and optionally substituted aralkyl; R₁₆ is selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, substituted phenyl [[or]] and substituted aralkyl;

R₆, R₉ and R₁₀ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, [[or]]

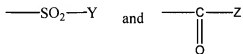


wherein Y and Z are as defined above;

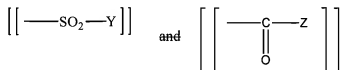
R₇, R₈, R₁₁, and R₁₃ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons [[or]] and hydroxyl, but when R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl, R₁₁ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, ~~hydroxyl or hydroxyl~~,



wherein Y and Z are as defined ~~above when R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl; above~~; R₁₂ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, ~~hydroxyl or selected from the group consisting of hydroxyl~~,

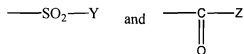


wherein Y and Z are as defined above, or selected from the group consisting of

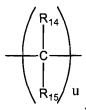


wherein Y and Z are as defined above, provided that

when R₃ is of Formula (II), one of R₁, R₅, R₆, and R₉ is selected from the group consisting of

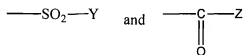


wherein Y and Z are as defined above, in which, when X is

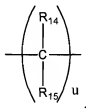


at least one of R₁, R₂, R₄, R₅, R₆, R₇, R₈, and R₉ is $\text{---SO}_2\text{---Y}$, and

when R₃ is of Formula (III), at least one of R₁, R₅, and R₁₀ is selected from the group consisting of



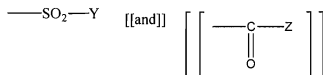
in which, when X is



at least one of R₁, R₂, R₄, R₅, R₁₀, R₁₁, R₁₂, and R₁₃ is $\text{---SO}_2\text{---Y}$,

wherein Y and Z are as defined above, and

when R₃ is selected from a group other than the group consisting of Formula (II) ~~[[or]]~~ and (III),
 either of R₁ or R₅ is ~~selected from the group consisting of~~



wherein Y ~~and Z are~~ is as defined above, and

~~the phenol derivative is reacted with~~ an organic compound under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

Claim 2 (**Currently Amended**). A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (IV)



wherein A is selected from the group consisting of

phenyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

benzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

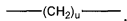
phenethyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, [[or]] and

naphthyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

R_{20} , R_{22} , and R_{23} are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons ~~or the same groups as those for R_{17} , carbons, $-\text{SO}_2-$ Y, and $-\text{C}(=\text{O})-\text{Z}$, wherein Y and Z are as defined above, and~~

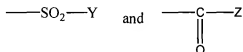
when A is



at least one of R_{17} , R_{20} , R_{22} , and R_{23} is $-\text{SO}_2-\text{Y}$ wherein Y is as defined above, and

an organic ~~compound~~, compound as the other reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

R_{25} , R_{28} , R_{29} , and R_{31} are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or carbons.



wherein Y and Z are selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

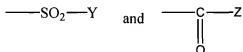
benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, [[or]] and

naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

at least one of R₂₅, R₂₈ and R₂₉ is selected from the group consisting of



wherein Y and Z are ~~selected from the group consisting of~~ as defined above, and

alkyl having 1 to 6 carbons;

alkenyl having 2 to 6 carbons;

cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen;

cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen;

phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen;

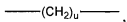
benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen;

phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen;

α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen; or

naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

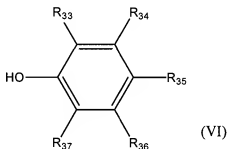
when B is



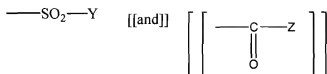
at least one of R_{25} , R_{28} , R_{29} , and R_{31} is $\text{---SO}_2\text{---Y}$ wherein Y is as defined above, and

an organic compound as the second reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

Claim 4 (Currently Amended). A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (VI)



wherein R_{33} is selected from the group consisting of



wherein Y ~~and Z are~~ is selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

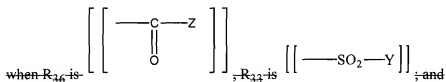
benzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, [[or]] and

naphthyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

R₃₄, R₃₅, R₃₆ and R₃₇ are same or different selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, halogen or the same groups as those for R₃₃, halogen and —SO₂—Y, wherein Y is as defined above,



when R₃₄ is $\left[\left[\begin{array}{c} \text{---C---Z} \\ || \\ \text{O} \end{array} \right] \right]$, R₃₇ is hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, halogen or $\left[\left[\text{---SO}_2\text{---Y} \right] \right]$

with an organic compound as the second reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

Claims 5-15 (Cancelled).

Claim 16 (Currently Amended). A molecular compound according to Claim 1, in which the molecular compound contains, as constituents, comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[I];] (I) as defined in Claim 1; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 17 (**Currently Amended**). A molecular compound ~~according to Claim 2, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[IV);] (IV) as defined in Claim 2; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 18 (**Currently Amended**). A molecular compound ~~according to Claim 3, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[V);]] (V) as defined in Claim 3; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 19 (**Currently Amended**). A molecular compound ~~according to Claim 4, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[VI);]] (VI) as defined in Claim 4; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claims 20-31 (**Cancelled**).